COAA Course Project

By ETD Batch 1 Group 2

Password Validity Checking System

ETD-02

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Problem Statement

To write a program in 8086 Assembly Language that checks an input string against a password string stored in memory and outputs a message based on whether the password is matched or not.

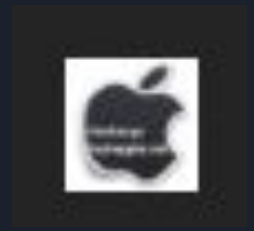
Introduction and Objective

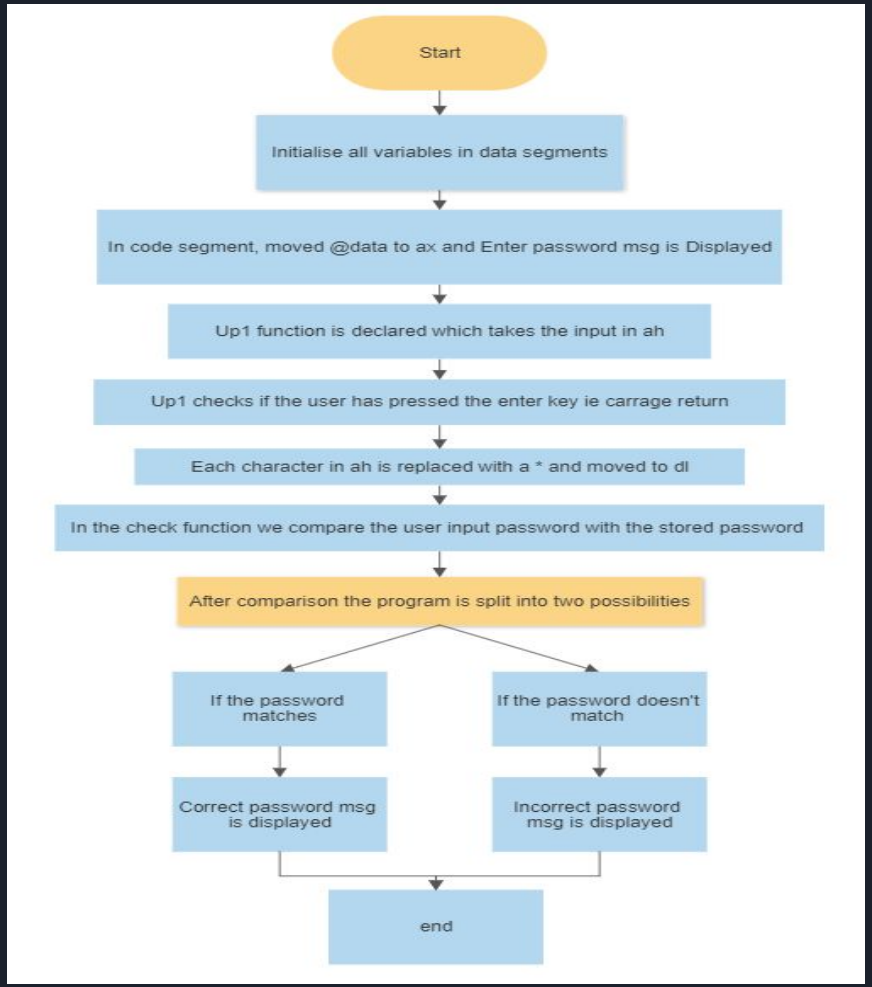
- This is a password validity checking system designed with assembly language used to program the 8086 Microcontroller .
- This program/project accepts a string as input from the user and compares it with the password hardcoded in the program.
- The main objective of this project is to practically implement fundamental concepts of assembly language programming.
- With the application of these concepts we can design small applications like these which helps you in getting more well versed with assembly language programming.

Tools Used

- DOSBox : DOSBox is a free and open-source emulator which runs software for MS-DOS compatible disk operating systems—primarily video games. It was first released in 2002.

- TASM 1.4 : Turbo Assembler aka tasm is an assembler for software development published by Borland 1989.




Start
Initialise all variables in data segments
In code segment, moved @data to ax and Enter password msg is Displayed
Up1 function is declared which takes the input in ah
Up1 checks if the user has pressed the enter key ie carrage return
Each character in ah is replaced with a * and moved to dl
In the check function we compare the user input password with the stored password
After comparison the program is split into two possibilities
If the password matches
If the password doesn't match
Correct password msg is displayed
Incorrect password msg is displayed
end

Result

Case 1: Correct Password

```
C:\TASM>hint.exe

Enter your password: *****
Correct Password,Welcome!!
```

Case 2: Incorrect Password

```
C:\TASM>hint.exe

Enter your password: *****
Incorrect Password, Please try again!
```

Conclusion

- The given password in data segment is successfully checked and compared with input password by user.
- The result of above is displayed using appropriate messages after giving input by user.
- Each time program is terminated with exit code 0 properly without any error.

Thank You!

Project Report

Github Repo